



Chemblend® FFD001 - Proprietary Processing Aid

General Description: White granular
Formula: NaH_2PO_4
Molecular Weight: 120.0
CAS NO: 7558-80-7

Characteristics

Specification

Assay (as NaH_2PO_4), %	95.0 Minimum
Pyrophosphate, %	4 Maximum
Loss on Drying, %	0.5 Maximum
pH, 1% Solution	4.4 – 4.8
SIZING, USSS: Cumulative Retained on 100 Mesh, %	65 Minimum

Key Properties/Functions:

- Weakly Acidic Salt
- Buffer Capacity
- Nutrient Source
- Good Liquid Absorbent
- High Rate of Solution
- Shelf-Life = 24 months

Suggested Applications:

- **Boiler Water Treatment:** CHEMBLEND® FFD001 is used for boiler water treatment where it softens the water by precipitation of calcium ions, thereby preventing scale formation. It also serves to adjust the pH of the water. DSP, however, finds greater application in this area.
- **Metal Cleaners:** CHEMBLEND® FFD001 is used in metal cleaning solutions where mild acidity is advantageous, such as those used for the removal of light rust or lime scale. CHEMBLEND® FFD001 is excellent for formulated metal cleaners due to its ability to absorb liquid surfactants and remain free flowing. It can thus be used to formulate dry products, which can be easily and rapidly dissolved to make up cleaning baths.
- **Metal Phosphatizing:** Phosphatizing baths containing CHEMBLEND® FFD001 are used to deposit uniform thin coatings primarily on iron or steel; although zinc and aluminum surfaces are also phosphatized.



CHEMBLEND® FFD001 acts as a pH control and buffering agent to maintain the bath in the 4-5 pH range where the most effective precipitation of an insoluble phosphate salt occurs on the metal surface. Other phosphatizing solutions are often made directly from phosphoric acid.

- Electroplating: Electroplating baths
- Dairy Cleaning: Mildly acidic solutions are used in dairy operations to remove "milkstone." CHEMBLEND® FFD001 is often used to prepare dry formulations, which can be quickly dissolved for this application.
- Textile Cleaning, Finishing and Dyeing: CHEMBLEND® FFD001 in combination with other orthophosphates can be used for pH control. CHEMBLEND® FFD001 is also an efficient reduction and exhaustion agent when dyeing with dark sulfur colors.
- Potable Water Treatment: ICL Performance Products LP monosodium phosphate conforms to the requirements of ANSI/NSF Standard 60 and meets or exceeds ANSI/AWWA Standard B504-88. Used for corrosion & scale control. Maximum Use Level = 13 mg/L.

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